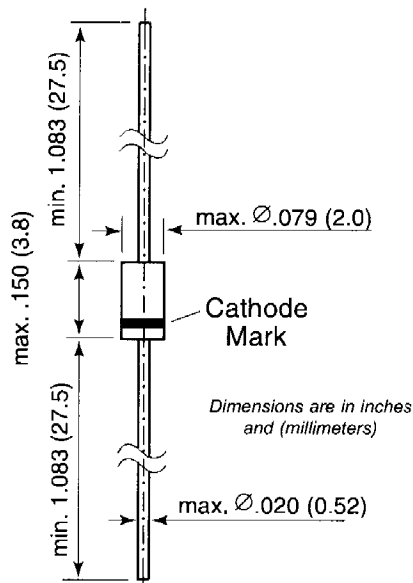


DO-204AH (DO-35 Glass)



## ZTK6.8 thru ZTK33

### Voltage Stabilizers

#### Mechanical Data

Case: DO-35 Glass Case

Weight: approx. 0.13 g

Packaging codes/options:

D7/10K per 13" reel (52mm tape), 20K/box

D8/10K per Ammo tape, (52mm tape), 20K/box

#### Maximum Ratings (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Operating Current (see Table "Characteristics")			
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature range	T <sub>S</sub>	-20 to +150	°C

#### Electrical and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Temperature Coefficient of the operating voltage at I <sub>Z</sub> = 5 mA ±0.5 in the range of T <sub>amb</sub> = 20 to 60°C	α <sub>VZ</sub>	-10	-2	+5 <sup>(1)</sup>	10 <sup>-5</sup> /°C
Thermal Run-in-Time	t <sub>th</sub>	-	-20 <sup>(2)</sup>	-	s
Thermal resistance junction to ambient air	R <sub>θJA</sub>	-	-	0.4	°C/W

Type	Operating Voltage at I <sub>Z</sub> = 5mA <sup>(3)</sup> V <sub>Z</sub> (V)	Dynamic resistance at I <sub>Z</sub> = 5mA r <sub>Zj</sub> (Ω)	Permissible operating at T <sub>amb</sub> = 25°C <sup>(4)</sup> I <sub>Z</sub> max. (mA)
ZTK6.8	6.4 ... 7.1	10(<25)	36
ZTK9	8 ... 10	10(<25)	27
ZTK11	10 ... 12	10(<25)	1
ZTK18	16 ... 20	11(<25)	13
ZTK22	20 ... 24	11(<25)	1
ZTK27	24 ... 30	12(<25)	8
ZTK33A	30 ... 32	12(<25)	7
ZTK33B	32 ... 34	12(<25)	7
ZTK33C	34 ... 36	12(<25)	7

Notes: (1) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case

(2) At the end of this time ΔV<sub>Z</sub> has reached 90% of its final value ΔV<sub>Z</sub> max. ΔV<sub>Z</sub> max = V<sub>Z</sub> (a) - V<sub>Z</sub> (0), where V<sub>Z</sub> (0) = V<sub>Z</sub> in the instant of turn-on and V<sub>Z</sub> (a) = V<sub>Z</sub> at thermal equilibrium

(3) Tested with pulses t<sub>p</sub> = 5ms

(4) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case